

Consider the electric field near a long line of uniform charge, λ . Which of these has the right dimensions?
($[\lambda] = Q/L$)

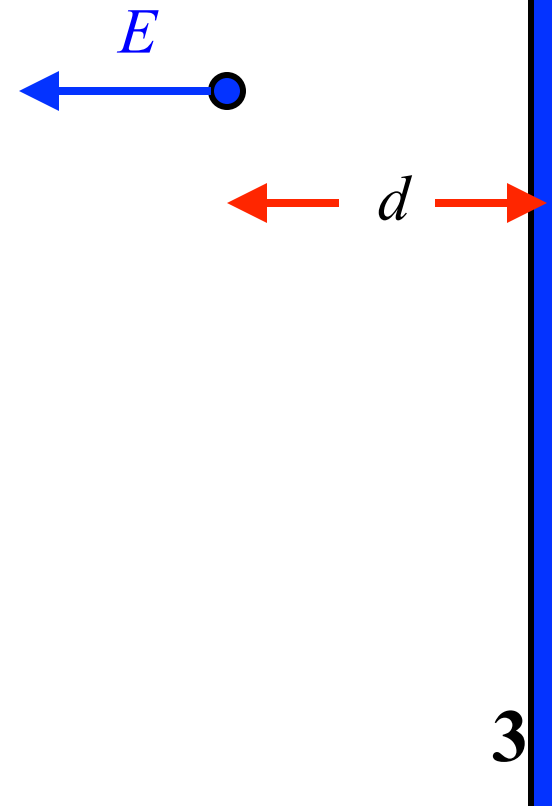
A. $E = 2k_c \lambda / d^3$

B. $E = 2k_c \lambda / d^2$

C. $E = 2k_c \lambda / d$

D. $E = 2k_c \lambda$

E. None of these

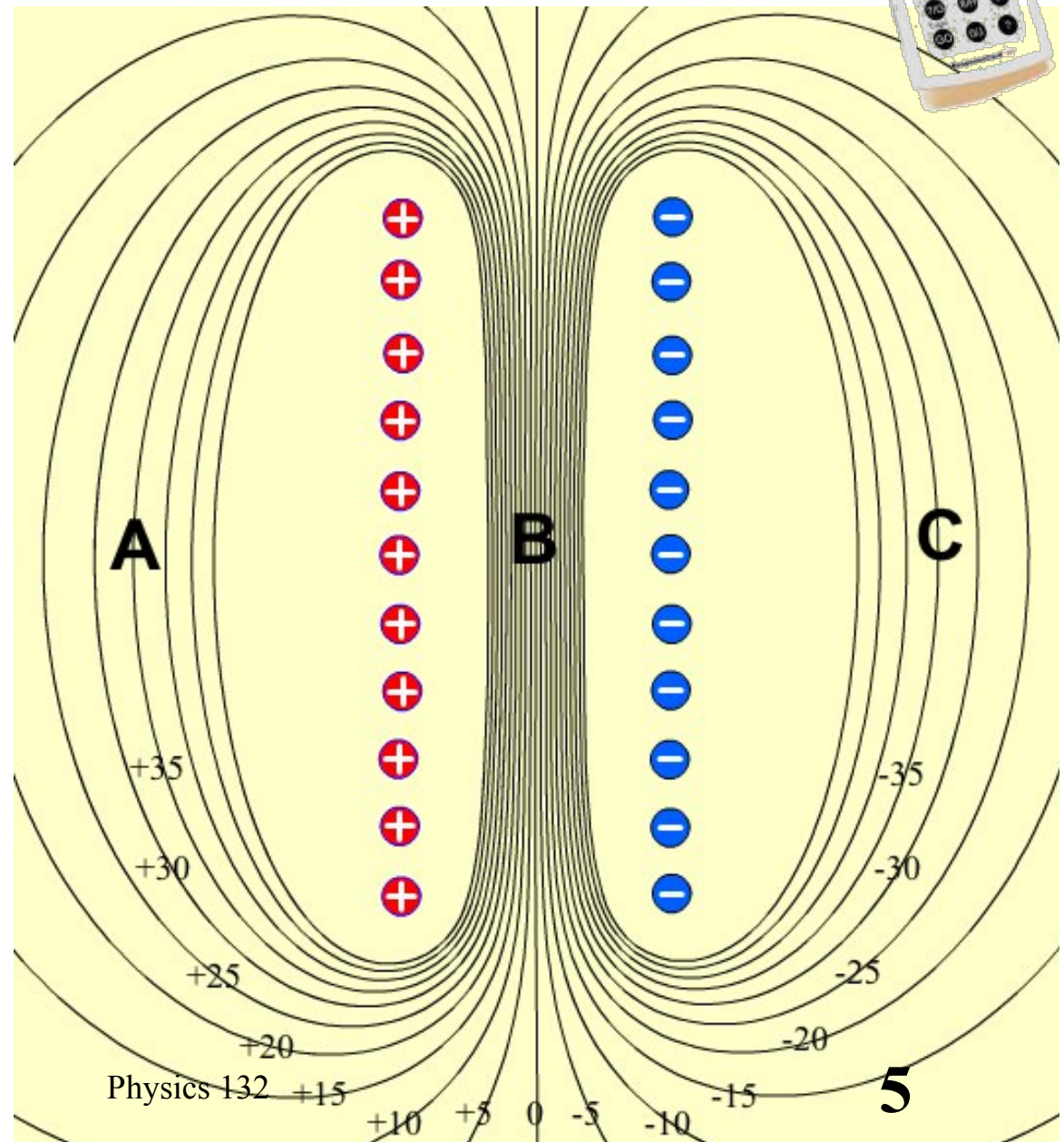


Model of PE for 2 line charges



Where would
a test charge feel
the largest
electric potential?

1. A
2. B
3. C
4. A and C

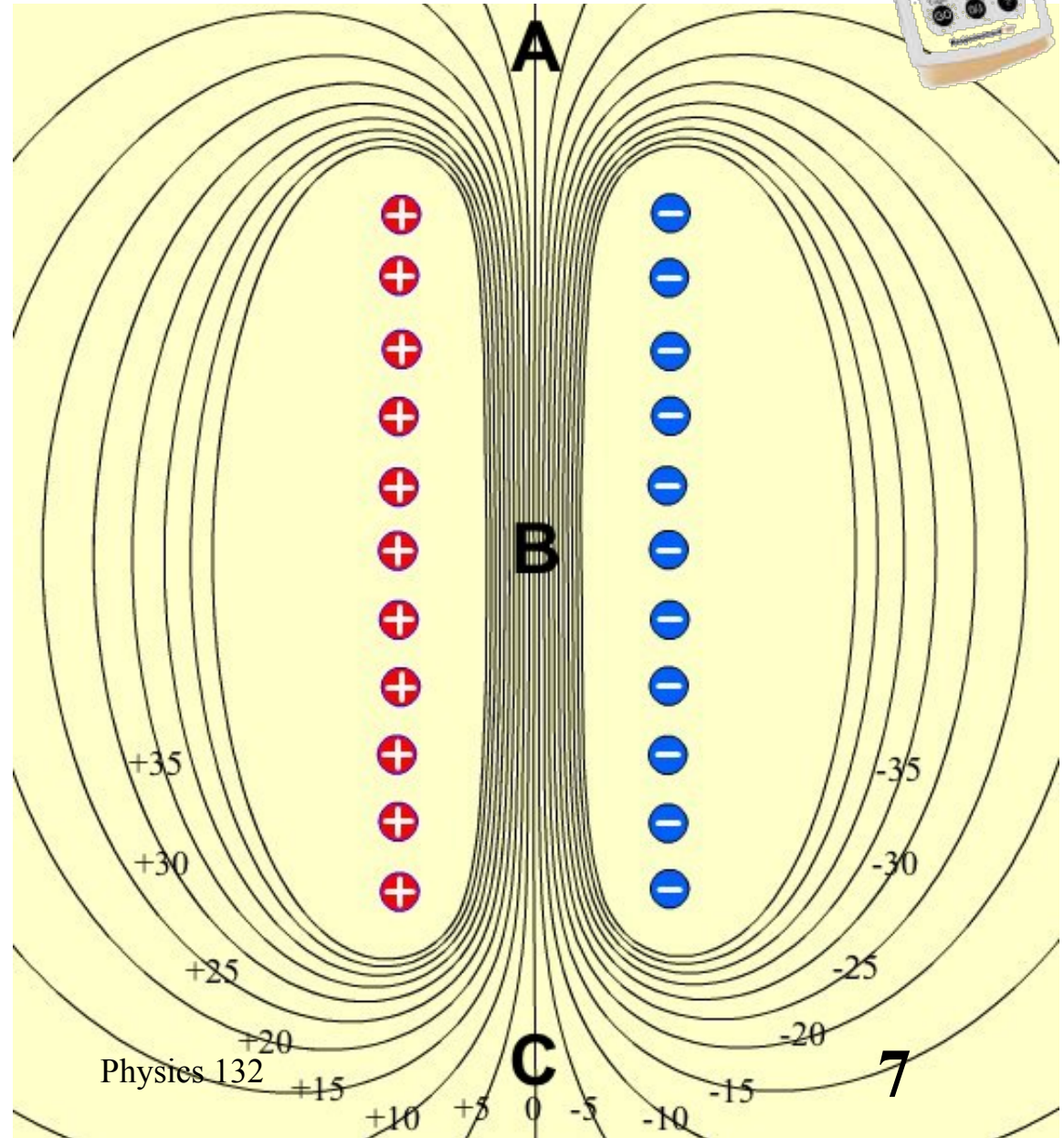


Model of PE for 2 line charges



Where would a test charge feel the strongest electric force?

1. A
2. B
3. C
4. A and C
5. It would feel no force at any of the three points



Consider the electric field near a large flat sheet of uniform charge, σ . Which of these has the right dimensions? ($[\sigma] = Q/L^2$)

A. $E = 2\pi k_C \sigma / d^3$

B. $E = 2\pi k_C \sigma / d^2$

C. $E = 2\pi k_C \sigma / d$

D. $E = 2\pi k_C \sigma$

E. None of these

